

# GUILHERME JACOBUS

Senior Fullstack Software Engineer

[guijacobus2@gmail.com](mailto:guijacobus2@gmail.com) • +64 021 1075675 • [linkedin.com/in/guilherme-jacobus](https://www.linkedin.com/in/guilherme-jacobus) • [www.guijacobus.com](http://www.guijacobus.com)

---

## SUMMARY

Senior Software Engineer with 5+ years of experience designing and building scalable, high-performance systems across cloud, web, and data platforms. Proven track record of leading complex projects end-to-end — from infrastructure (Azure, AWS, Terraform) to performant frontend and microservice APIs. Skilled in event-driven architectures, resilient data pipelines, and systems built for scale, cost-efficiency, and observability.

## EXPERIENCE

### Full Stack Senior Software Engineer

August 2024 - Present

*PATtech Ltd*

-

- Architected fan-out/fan-in ingestion system on Azure Functions + Service Bus, reducing CSV file processing time from 17 min to 2 sec and compute by 75%.
- Built a complex function app to reconcile tokenized energy consumption with generation, using Snowflake, PostgreSQL, and Prisma, supporting partial matches, splitting, and edge-case for renewable certificate transactions.
- Rebuilt the entire web portal architecture using Next.js and Node.js, introducing advanced table pagination and data-level expand/collapse strategies that reduced web and DB load by up to 90% during heavy data operations.
- Designed and deployed resilient Python-based ingestion pipelines for scraping and transforming official data from Australia's energy regulator (NEMWeb), storing outputs in Blob Storage and ingesting to Snowflake via Azure Functions.
- Led improvements in frontend rendering, backend load balancing, and data query strategies for large-scale, dramatically improving system responsiveness.

### FullStack Intermediate Developer

November 2023 - August 2024

*Mooven Ltd*

-

- Migrated a legacy Java-based user permission system to modular Node.js microservices using tRPC, streamlining access control for digital construction sites and significantly improving system maintainability and onboarding.
- Led the full lifecycle of the self-service (Virtual Messaging Sign) feature, enabling users to manage board messaging and after-hours settings independently, reducing internal support requests by over 40%. Responsibilities included planning, task assignment, team leadership, and hands-on development.
- Integrated Google, TomTom, and HMI APIs for real-time traffic analytics on road.

## Full Stack Junior Developer

March 2022 - November 2023

*PowerFinance*

- 
- Led the end-to-end development of smart contract integrations using Ethereum, building multiple Node.js microservices that ingested blockchain data, exposed REST APIs, and interfaced with GraphQL-based frontends.
- Worked across a distributed event-driven architecture using Azure Service Bus, CosmosDB, Node.js (v18), and GraphQL (Nexus), ensuring seamless data flow between smart contracts and user-facing apps.
- Designed and implemented the Transaction Service, a suite of APIs and processors that handled contract metadata, token transfers, and Kaleido events, storing records in CosmosDB and exposing them via OpenAPI specs.
- Built a shared React + MUI component library as a reusable NPM package, improving UI consistency and accelerating development across two portals.
- Stabilized and maintained the E2E test suite in collaboration with QA, cutting regression bugs by 50% and improving overall confidence in releases.

## Web Developer (Internship)

January 2021 - July 2021

*Accelerate IT Digital Nz*

- 
- Developed core company site features with React.js and serverless APIs (AWS Lambda + S3), improving SEO and engagement.

## EDUCATION

### Bachelor of Science in Computer Science

March 2019 - November 2021

Southern Institute of Technology

Queenstown, NZ

## SKILLS

### Technical Skills

JavaScript

TypeScript

Dart

React

NextJs

Redux

Node.js

Express

PostgreSQL

Docker

AWS

Azure

Terraform

CDK

RESTful APIs

GraphQL

### Soft Skills

Team Leadership

Communication

Initiative

Analytical Thinking

Adaptability

### Languages

English (Fluent)

Portuguese (Native)